

Method for producing chlorine

Publication number: AU3073400

Publication date: 2000-08-07

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Classification:

- international: **C01B7/04; C01B7/00; (IPC1-7): C01B7/04; B01J23/46**

- european: **C01B7/04**

Application number: AU20000030734D 20000119

Priority number(s): JP19990014236 19990122; WO2000JP00210 20000119

Also published as:



EP1170250 (A1)

WO0043313 (A)

US6977066 (B1)

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Abstract not available for AU3073400

Abstract of corresponding document: **EP1170250**

A process for producing chlorine comprising the step of oxidizing hydrogen chloride in a gas containing hydrogen chloride with a gas containing oxygen in the presence of a catalyst, wherein the oxidation of hydrogen chloride is carried out in at least two reaction zones each comprising a catalyst-packed layer, which are arranged in series, and a temperature in at least one of said reaction zones is controlled with a heat exchange system. According to this process, the stable activity of the catalyst is maintained and chlorine can be stably obtained at a high yield since the excessive hot spot in the catalyst-packed layer is suppressed and the catalyst-packed layer can be effectively used.

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